## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (Previously Presented) Substituted 1-phenethylpiperidine compounds of the formula I

I,

in which

X denotes a methylene (CH<sub>2</sub>) group,

R1 denotes an optionally at least mono-substituted aryl or heteroaryl group,

 $R^2$  denotes H, COR $^5$ , SO<sub>2</sub>R $^5$ , an optionally at least mono-substituted, saturated, branched or unbranched aliphatic  $C_{1-10}$  group, an optionally at least mono-substituted, at least mono-unsaturated, branched or unbranched aliphatic  $C_{2-10}$  group, an optionally at least mono-substituted, saturated or at least mono-unsaturated cycloaliphatic  $C_{3-8}$  group, an optionally at least mono-substituted aryl or heteroaryl group or an optionally at least mono-substituted aryl or

heteroaryl group attached via a  $C_{1:3}$  alkylene group,  $R^3$  and  $R^4$  each separately denote H or together denote a bond,

 $R^3$  denotes an optionally at least mono-substituted, saturated, branched or unbranched aliphatic  $C_{1\cdot10}$  group, an optionally at least mono-substituted, at least monounsaturated, branched or unbranched aliphatic  $C_{2\cdot10}$  group, an optionally at least mono-substituted, saturated or at least mono-unsaturated cycloaliphatic  $C_{3\cdot8}$  group, an optionally at least mono-substituted aryl or heteroaryl group or an optionally at least mono—substituted aryl or heteroaryl group attached via a  $C_{1\cdot3}$  alkylene group,

as a free base or a corresponding physiologically acceptable salt and corresponding racemates, enantiomers and diastereomers.

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- (Previously Presented) Substituted 1-phenethylpiperidine compounds according to claim 1, characterised in that R1 denotes an optionally at least mono-substituted aryl group.
- (Previously Presented) Substituted 1-phenethylpiperidine compounds according to claim 1, characterised in that R<sup>2</sup> denotes H, COR<sup>5</sup>, SO<sub>2</sub>R<sup>5</sup> or denotes a C1-6 alkyl group.
- (Previously Presented) Substituted 1-phenethylpiperidine compounds according to claim 1, characterised in that R<sup>3</sup> and R<sup>4</sup> each denote H.
- 6. (Previously Presented) Substituted 1-phenethylpiperidine compounds according to claim 1, characterised in that the group R<sup>5</sup> denotes a C<sub>1-6</sub> alkyl group or denotes an unsubstituted or at least mono-substituted aryl group.
- 7. (Currently Amended) Substituted 1-phenethylpiperidine compounds according to claim [[8]]  $\underline{6}$ , where the  $\mathbb{R}^{5}$  denotes a  $\mathbb{C}_{1-6}$  alkyl group.
- 8. (Previously Presented) A process for the production of substituted 1phenethylpiperidine compounds of the formula I according to claim 1, characterised in that

# (a) 1-phenethylpiperidin-4-one of the formula II

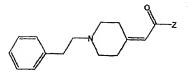
II

is reacted with triethyl phosphonoacetate in solution to yield (1-phenethylpiperidin-4-ylidene)-ethyl acetate of the formula III

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and this is optionally purified in accordance with conventional methods and/or optionally isolated in accordance with conventional methods,

(b) optionally the (1-phenethylpiperidin-4-ylidene)-ethyl acetate of the formula III is converted in accordance with conventional methods into a compound of the formula IV,



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in which Z denotes a group which activates the carbonyl carbon atom for reaction with an amine, the compound of the formula IV thus obtained is optionally purified in accordance with conventional methods and/or optionally isolated in accordance with conventional methods,

(c) optionally at least one of the compounds of the formula III or IV in solution is reduced to yield a corresponding compound of the formula III'

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or to yield a corresponding compound of the general formula IV'

IV'

and the corresponding compound is optionally purified in each case in accordance with conventional methods and/or optionally isolated in each case in accordance with conventional methods,

(d) at least one compound of the formula III, III', IV and IV' in solution is reacted with a primary or secondary amine of the formula V,

V

in which  $\mathbb{R}^1$  and  $\mathbb{R}^2$  have the meaning according to formula I, to yield at least one compound of the formula Id

Id

and/or at least one compound of the formula Id'

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and this is optionally purified in each case in accordance with conventional methods and/or optionally isolated in each case in accordance with conventional methods.

(e) optionally at least one of the compounds of the general formula Id and/or Id' is converted by reduction in solution into at least one compound of the formula Ie

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and/or at least one compound of the general formula Ie'

in which  $R^1$  and  $R^2$  each have the meaning according to claim 1, and this is optionally purified in each case in accordance with conventional methods and/or optionally isolated in each case in accordance with conventional methods,

(f) optionally at least one compound of the formula Ie and/or Ie', in which the group  $R^2$  denotes H, is converted in accordance with conventional methods known to the person skilled in the art into at least one compound of the formula Ie and/or Ie', in which the residue  $R^2$  denotes  $COR^5$ ,  $SO_2R^5$ , an optionally at least mono-substituted, saturated, branched or unbranched aliphatic  $C_{1-10}$  group, an optionally at least mono-substituted, at least mono-unsaturated, branched or unbranched aliphatic  $C_{2-10}$  group, an optionally at least mono-substituted, saturated or at least

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monounsaturated cycloaliphatic C<sub>3-8</sub> group, an optionally at least mono-substituted aryl or heteroaryl group or denotes an optionally at least mono-substituted aryl or heteroaryl group attached via a C1-3 alkylene group, wherein the group R<sup>5</sup> has the above-stated meaning and this is optionally purified in accordance with conventional methods and/or optionally isolated in accordance with conventional methods.

- (Previously Presented) A process according to claim 8, characterised in that Z denotes OH, Cl or a succinimide group.
- 10. (Previously Presented) A process according to claim 8, characterised in that the reduction to yield the compounds of formula III' or IV' is performed with hydrogen in the presence of a transition metal catalyst.
- 11. (Previously Presented) A process according to claim 8, characterised in that the reaction with a primary or secondary amine of the formula V is performed in the presence of n-butvllithium.
- 12. (Previously Presented) A process according to claim 8, characterised in that reduction to yield a compound of the formula Ie or Ie' proceeds with aluminium hydride (alane) produced in situ from lithium aluminium hydride and aluminium trichloride in an organic solvent.
- 13. (Previously Presented) A pharmaceutical preparation containing at least one substituted 1-phenethylpiperidine compound according to claim 1 and optionally physiologically acceptable auxiliary substances.

## 14-23. Cancelled

24. (Withdrawn) A method of combatting of pain, or migraine, diarrhea, urinary incontinence, pruritus, inflammatory reactions, allergic reactions, dependency on alcohol and/or drugs and/or medicines, abuse of alcohol and/or drugs and/or medicines, inflammation or for local anesthesia comprising administering to a patient in need thereof of an effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.

- 25. (Previously Presented) A compound of claim 1 selected from the group consisting of
- [2-(1-Phenethylpiperidin-4-y1-)ethyl]phenylamine,
- (4-Methoxyphenyl)-[2-(1-phenethylpiperidin-4-yl)ethyl]amine,
- 2-[2-(1-Phenethylpiperidin-4-ypethylamino]phenol,
- [2-(1-Phenethylpiperidin-4-ypethy1]-(3-trifluoromethylphenyl)amine,
- (3-Methoxyphenyl)-[2-(1-phenethylpiperidin-4-yl)ethyl]amine,
- 4-[2-(1-Phenethylpiperidin-4-ypethylamino]phenol,
- (4-Chloro-2-fluorophenyl)-[2-(1-phenethylpiperidin-4-yl) ethyl]amine,
- 3-[2-(1-Phenethylpiperidin-4-yl)ethylamino]phenol,
- N-(3-Chloro-4-methoxyphenyl)-N-[2-(1-phenethylpiperidin-4-yl) ethyl]acetamide,
- N-(3-Chloro-4-methoxyphenyl)-N-[2-(1-phenethylpiperidin-4-yl) ethyl] propionamide,
- N-(3-Chloro-4-methoxyphenyl)-N-[2-(1-phenethylpiperidin-4-yl)ethyl]benzamide,
- N-[2-(1-Phenethylpiperidin-4-yl)ethyl]-N-(3-trifluoromethylphenyl)acetamide,
- N-[2-(1-Phenethylpiperidin-4-yl)ethyI]-N-phenylacetamide,
- $N\hbox{-}[2\hbox{-}(1\hbox{-}Phenethylpiperidin-}4\hbox{-}yl)ethyl]\hbox{-}N\hbox{-}phenylbenzamide,}$
- (4-Methylpyridin-2-y1)-[2-(1-phenethyl-piperidin-4-y1)-ethyl]amine and
- $(4,6\hbox{-}Dimethyl\hbox{-}pyridin-2\hbox{-}yl)\hbox{-}[2\hbox{-}(1\hbox{-}phenethylpiperidin-4\hbox{-}ylidene)\hbox{-}ethyl] a mine.$
- 26.(Previously Presented) A method of combatting pain comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 27. (Previously Presented) A method of treating migraine comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.

- 28. (Withdrawn) A method of treating diarrhea comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 29. (Withdrawn) A method of treating urinary incontinence comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 30. (Withdrawn) A method of treating pruritus comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 31. (Withdrawn) A method of treating inflammatory reactions comprising administering to a patient in need thereof of a therapeutically effective amount of a-pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 32. (Withdrawn) A method of treating allergic reactions comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 33. (Withdrawn) A method of treating dependency on alcohol and/or drugs and/or medicines, or abuse of alcohol and/or drugs and/or medicines, comprising administering to a patient in need thereof of an effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 34. (Withdrawn) A method of treating inflammation comprising administering to a patient in need thereof of a therapeutically effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.
- 35. (Withdrawn) A method of local anesthesia comprising administering to a patient in need thereof of an effective amount of a pharmaceutical preparation comprising at least one substituted 1-phenethylpiperidine compound according to claim 1.

- 36. (Previously Presented) Substituted 1-phenethylpiperidine compounds according to claim 4, characterised in that R<sup>2</sup> denotes H or COR<sup>5</sup>.
- 37. (New) Substituted 1-phenethylpiperidine compounds according to claim 36, characterised in that R<sup>2</sup> denotes H.
  - 38. (New) A compound of claim 25, selected from the group consisting of:
- [2-(1-Phenethylpiperidin-4-y1-)ethyl]phenylamine,
- (4-Methoxyphenyl)-[2-(1-phenethylpiperidin-4-yl)ethyl]amine,
- 2-[2-(1-Phenethylpiperidin-4-ypethylamino]phenol,
- [2-(1-Phenethylpiperidin-4-ypethyl]-(3-trifluoromethylphenyl)amine,
- (3-Methoxyphenyl)-[2-(1-phenethylpiperidin-4-yl)ethyl]amine,
- 4-[2-(1-Phenethylpiperidin-4-ypethylamino]phenol,
- (4-Chloro-2-fluorophenyl)-[2-(1-phenethylpiperidin-4-yl) ethyl]amine,
- 3-[2-(1-Phenethylpiperidin-4-yl)ethylamino]phenol,
- (4-Methylpyridin-2-y1)-[2-(1-phenethyl-piperidin-4-y1)-ethyl]amine and
- (4.6-Dimethyl-pyridin-2-yl)-[2-(1-phenethylpiperidin-4-ylidene)-ethyl] amine.